

Title (en)

COMPOSITIONS AND METHODS FOR TREATING PERIPHERAL ARTERIAL DISEASE

Title (de)

ZUSAMMENSETZUNGEN UND VERFAHREN ZUR BEHANDLUNG VON PERIPHERER ARTERIENERKRANKUNG

Title (fr)

COMPOSITIONS ET PROCÉDÉS PERMETTANT DE TRAITER LA MALADIE ARTÉRIELLE PÉRIPHÉRIQUE

Publication

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Application

**EP 13829411 A 20130815**

Priority

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Abstract (en)

[origin: WO2014028762A1] The present application discloses roles for miR-93 in treating hypoxia and ischemia. Endothelial cells (HUVEC) and myocytes (C2C12) expressed miR-93 and up-regulated miR-93 in response to hypoxia and serum starvation. Over-expression of miR-93 in HUVECs promoted cell proliferation, prevented hypoxia-induced apoptosis, and enhanced endothelial cell tube formation. miR-93 knockdown in HUVECs resulted in increased hypoxia-induced apoptosis and decreased tube formation. Over-expression or knockdown of miR-93 in myocytes resulted in reduced or increased hypoxia-induced apoptosis, respectively. Down-regulation of miR-93 in C57BL/6 mice with antagomiR resulted in attenuated perfusion recovery (% non-ischemic leg at day-21: Scramble 85.22.9 vs. AntagomiR-93 67.96). Over-expression of miR-93 in BALB/C mice improved perfusion recovery (% non-ischemic leg at day 21: PremiR-93 757.5 vs. Scramble 59.62.5). The present invention encompasses the use of miR-93 and regulation of miR-93 to treat and prevent hypoxia, ischemia, and other injuries, diseases, disorders, and conditions associated with ischemia.

IPC 8 full level

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